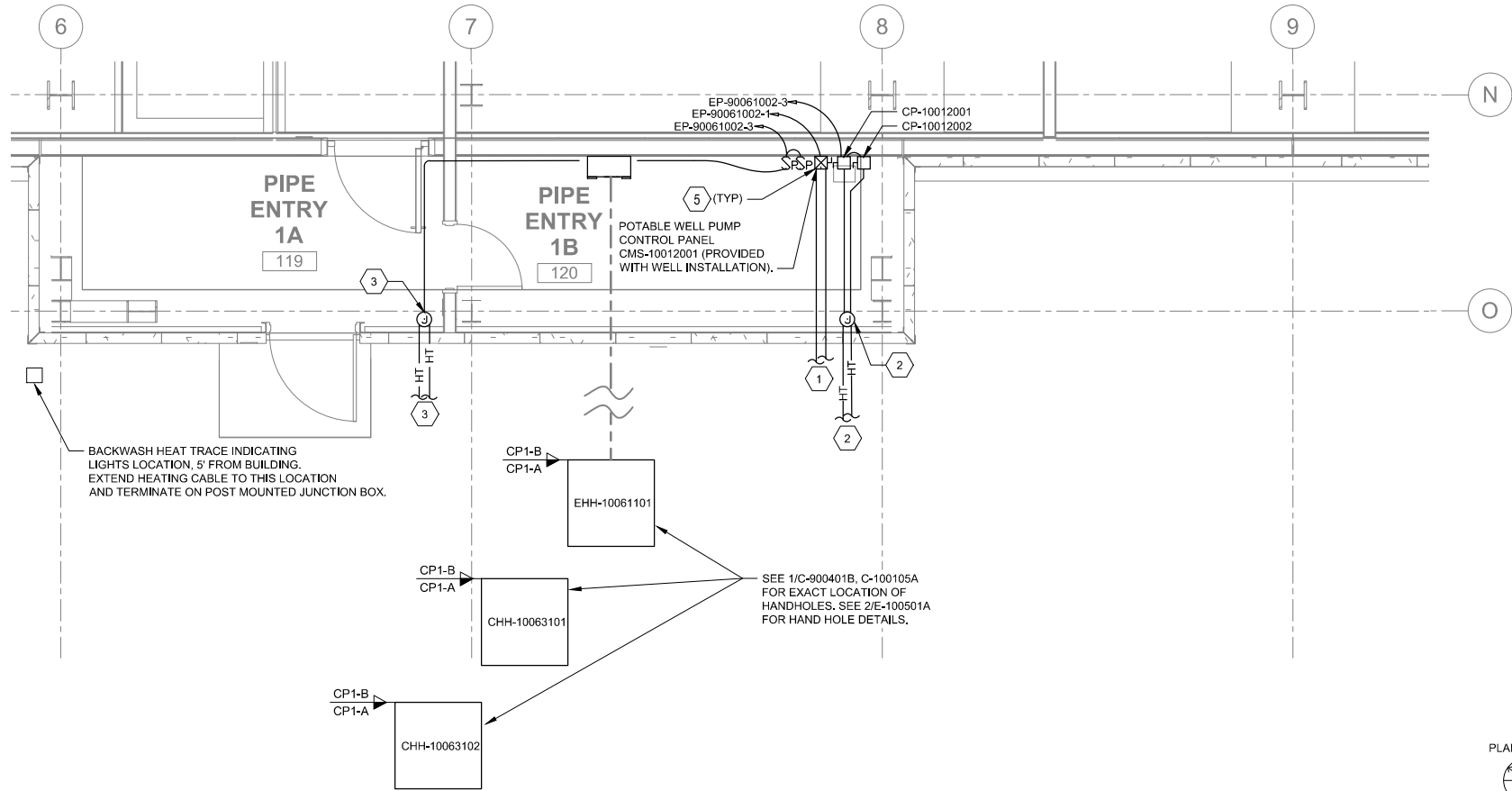
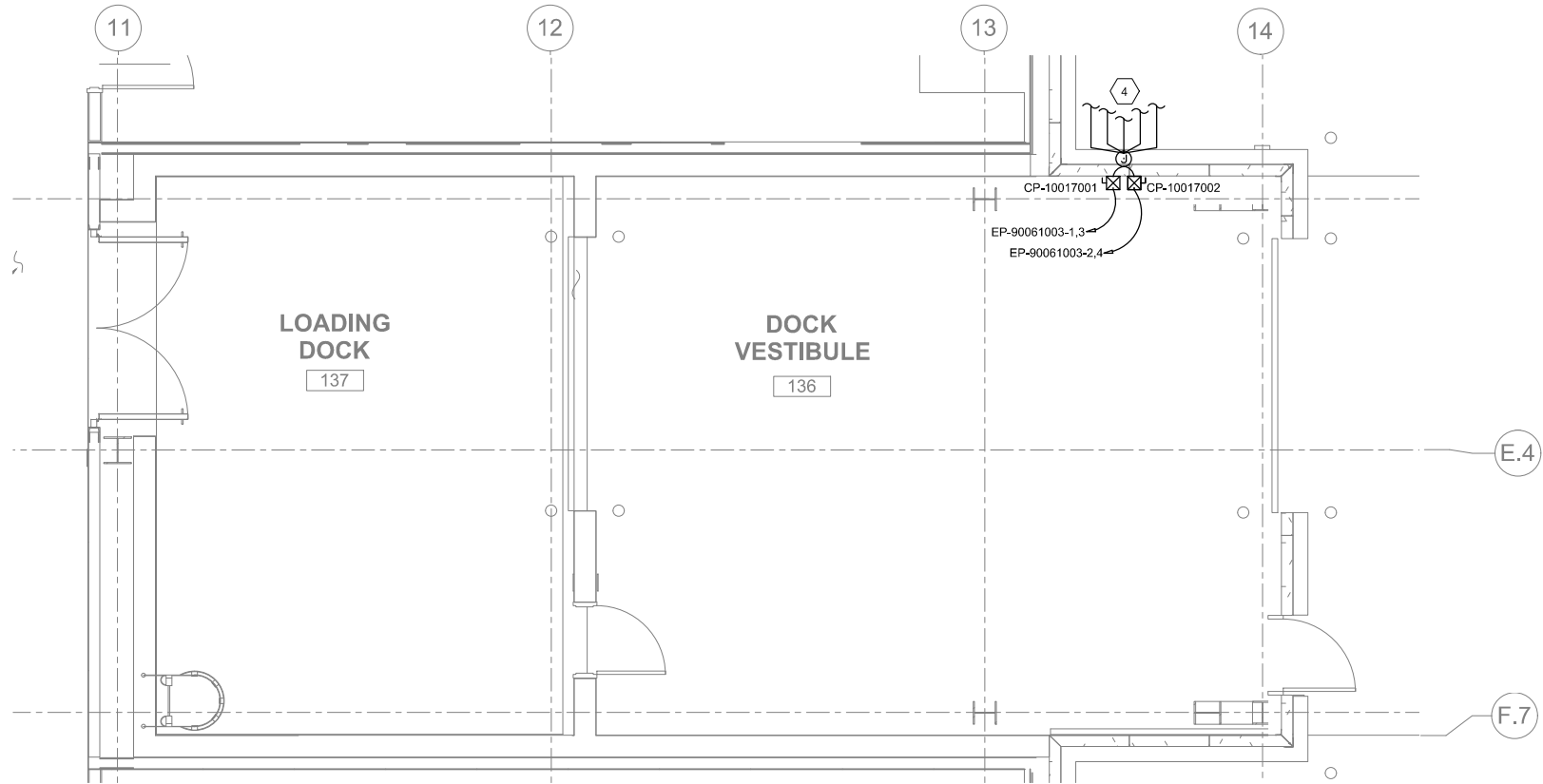


Drawing P:\2015\15021AN-LRDR_RIM-HDIOECLR_LRDR_E-100402A.dwg last saved on 12/20/2016 1:19 PM was plotted by Josh Schultz on 12/20/2016 1:27 PM



1 PIPE ENTRY CP1-A/CP1-B INTERFACE
1/4" = 1'-0"



2 SANITARY SEWER CP1-A/CP1-B INTERFACE
1/4" = 1'-0"

SHEET NOTES (X)

- PROVIDE 3-4 AWG +8 AWG GND, 1-1/2"C. AND 1" C. FOR POWER AND CONTROL CONDUCTORS FROM CMS-10012001 TO POTABLE WATER WELL STRUCTURES NEMA 4X BOXES MOUNTED INSIDE STRUCTURE, SEE 1/E-100502A.
- RAW WATER LINE
 - PROVIDE 2-1" C. TO EXTEND RAW WATER PIPE HEAT TRACE CHANNELS (SEE 2/C-100501A) TO A NEMA 4X JUNCTION BOX FOR CONNECTION OF COLD LEADS AT LOCATION ABOVE PIPE ENTRY 1B FLOOR.
 - CONNECT TO RAW WATER HEAT TRACE CONTROLLERS CP-10012001 AND CP-10012002 (SEE 2/E-100503A).
 - PROVIDE SINGLE HEAT TRACE CABLE IN CONDUIT AND CHANNEL TO RAW WATER WELL, TYPICAL OF 2. FOR CONTINUATION SEE E-100112A.
- BACKWASH WASTE LINE
 - PROVIDE 2 EACH 1" C. TO EXTEND BACKWASH SANITARY WASTE LINE HEAT TRACE CHANNELS (SIMILAR TO 3/C-100504A) TO A NEMA 4X JUNCTION BOX FOR CONNECTION OF COLD LEADS AT LOCATION ABOVE PIPE ENTRY 1B FLOOR.
 - CONNECT TO BACKWASH HEAT TRACE CONTROL SWITCHES WITH PILOT LIGHTS FOR MANUAL OPERATION (SEE 3/E-100503A).
 - PROVIDE REDUNDANT HEAT TRACE CABLES IN CONDUITS AND CHANNELS TO BACKWASH LEACH FIELD. FOR CONTINUATION SEE E-100112A.
- SANITARY WASTE LINE
 - PROVIDE 4 EACH 1" C. TO EXTEND SANITARY PIPE HEAT TRACE CHANNELS (SEE 3/C-100504A) AND ONE 2" C. TO SS MH-3 FROM NEMA 4X JUNCTION BOX BELOW HEAT TRACE CONTROL PANELS FOR CONNECTION OF COLD LEADS ABOVE DOCK VESTIBULE FLOOR. HEAT TRACE COLD LEAD CONNECTIONS WILL TRANSITION TO BELOW GRADE IN DOCK VESTIBULE ROUTED OUT TO GRADE BOX LOCATION AS SHOWN IN E-100113A.
 - CONNECT NEMA 4X JUNCTION BOX TO SANITARY HEAT TRACE CONTROLLERS CP-10017001 AND CP-10017002 (SEE 1/E-100503A).
 - PROVIDE FOUR HEAT TRACE CABLES IN CONDUIT AND CHANNEL TO SANITARY SEWER LINE FROM SEPTIC TANK, FOR CONTINUATION SEE E-100113A.
 - PROVIDE 4-8 AWG + 10 AWG GND IN THE 2" CONDUIT TO SS MH-3. CONNECT TO MANUFACTURER'S RECOMMENDED POWER CONNECTION BOX TO SANITARY SEWER HEAT TRACE. FOR CONTINUATION SEE E-100113A.
 - PROVIDE GRADE JUNCTION BOX, SIMILAR TO SHOWN IN 2/E-100701A, FOR CONNECTION OF HEAT TRACE TO SANITARY SEWER PIPING.
- PROVIDE LABEL FOR EACH SWITCH TO INDICATE WHAT IS BEING CONTROLLED.

GENERAL NOTES

- FOR ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS, SEE SHEETS E-100001A, E-100002A AND E-100003A.



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| CONTRACT NO. | CONTRACTOR | CITY | STATE | DATE |
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| RECOMMENDED BY | APPROVED BY | DATE | REVISION NUMBER | |
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| AM#4 | CLARIFY SDB REQUIREMENTS | 12/16 | BKH |
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| Rev. | Description | Date | Approved |
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| Date: | 2016.11.18 | Drawn: | AS NOTED | Rev. Scale: | 1:2 | File: | CLR_LRDR_E-100402A | Drawing #: | AF-141-391-01 | CLR039a | |
| Designed: | RDP | Drawn: | NW | Reviewed: | RDP | Sampled: | SWT | WB11KB-17-R-0010 | | MDA657 | |
| U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA | | | | | | | | | | FDC INC. ENGINEERS AND ARCHITECTS ANCHORAGE, ALASKA ANC0107432501 1/EC005 | |



AM#4

NOT FOR CONSTRUCTION
CLEAR AFS, ALASKA
LONG RANGE DISCRIMINATION RADAR
CONSTRUCTION PACKAGE 1 - VOLUME 1
SITE HEAT TRACE INTERFACE

Reference number:
E-100402A